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Advances in Behavioral Sciences in the Internet Age: Selected Topics in Mathematical Psychology

Scientific Organizer: Xiangen Hu - Central China Normal University - Wuhan – China - June 27th 2013

Workshop on ‘Knowledge & Competence/Skill Spaces and their Applications’

by Dietrich ALBERT (Graz) & Reinhard SUCK (Osnabrück) & Xiangen HU (Memphis)

PART 1

Introduction and Overview: Dietrich Albert

PART 3

Recent Applications: Dietrich Albert

REFERENCES

(Status of June 2013)

In the following references on (Competence-based) Knowledge Spaces, in terms of (a) **Bibliography**, (b) **Introductory Papers** and (c) **Books** are listed.

- The **Bibliography on Knowledge Spaces** and its extensions based on a list maintained by Cord Hockemeyer (University of Graz, Department of Psychology):
 - <http://css.uni-graz.at/kst.php>
 - [and/or http://iinwww.ira.uka.de/bibliography/Ai/knowledge.spaces.html](http://iinwww.ira.uka.de/bibliography/Ai/knowledge.spaces.html)

The ‘Bibliography on Knowledge Spaces’ offers access to many references and also publications!

- **Introductory Papers:**
 - Falmagne, J.-C., Doignon, J.-P., Cosyn, E. & Thiery, N. (2004). *The assessment of knowledge in theory and practice*.
http://www.aleks.com/about/Science_Behind_ALEKS.pdf
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 - Falmagne, J.-C., Doignon, Koppen, M., Villano, M. & Johannesen, L. (1990). Introduction to knowledge

spaces: How to build, test, and search them.
Psychological Review, 97, 201-224.

- Heller, J., Steiner, C., Hockemeyer, C., & Albert, D. (2006). Competence-Based Knowledge Structures for Personalised Learning. *International Journal on E-Learning*, 5(1), 75-88. [PDF]
<http://wundt.uni-graz.at/publicdocs/publications/IJEL.pdf>
<http://hmdb.cs.kuleuven.be/ProlearnIClass/papers/Heller.pdf>
- Suck, R. (2011) Knowledge spaces regarded as set representations of skill structures. In: E. Dzhaferov & L. Perry (Eds.) *Descriptive and Normative Approaches to Human Behavior*. London: World Scientific, pp. 249-270.
- **Books:**
 - Doignon, J.-P. & Falmagne, J.-C. (1999) *Knowledge spaces*. Berlin, New York: Springer.
 - Albert, D. & Lukas, J. (Eds.) (1999) *Knowledge Spaces: Theories, Empirical Research, and Applications*. Mahwah, NJ: Lawrence Erlbaum.
 - Falmagne, J.-C. & Doignon, J.-P. (2011) *Learning Spaces*. Berlin, New York: Springer.
 - Falmagne, J.-C., Albert, D., Doble, C., Eppstein, D. & Hu, X. (Eds.) (2013) *Knowledge Spaces: Applications in Education*. Berlin, New York: Springer.